IN THE CLAIMS:

- 1. (currently amended): An outermost surface covering not less than 55% of stainless steel said surface having a resistance to coke formation when the stainless steel is exposed to a hydrocarbon environment at high temperatures and having a thickness from 0.1 to [[15]] 10 microns and substantially comprising a spinel of the formula Mn_xCr_{3-x}O₄ wherein x is from 0.5 to 2 MnCr₂O₄.
- 2. (original): The surface according to claim 1, wherein the stainless steel comprises from 13 to 50 weight % of Cr and 0.2 to 3.0 weight % Mn.
- 3. (original): The surface according to claim 2, wherein the stainless steel comprises from 20 to 38 weight % of Cr and 0.5 to 2.0 weight % Mn.
- 4. (original): The surface according to claim 3, wherein the stainless steel further comprises from 20 to 50 weight % of Ni, from 0.3 to 2.0 weight % of Si and less than 5 weight % of titanium, niobium and all other trace metals, and carbon in an amount less than 0.75 weight %.
- 5. (original): The surface according to claim 4, covering not less than 60% of the stainless steel.
- 6. (original): The surface according to claim 4, covering not less than 80% of the stainless steel.

7. (original): The	surface ac	ecording to claim 4, covering not less than 95% of th
stainless steel.		
8. (cancelled)		
9. (cancelled)		
10. (cancelled)		
11. (currently ame		stainless steel pipe or tube having an inner surface
12. (currently ame		stainless steel pipe or tube having an inner surface
13. (currently ame		stainless steel pipe or tube having an inner surface
14. (currently ame		stainless steel reactor having an inner surface
15. (currently ame		stainless steel reactor having an inner surface

- 16. (currently amended): A stainless steel reactor having an inner surface according to claim [[10]] 7.
- 17. (currently amended): A stainless steel heat exchange having an inner surface according to claim [[8]] 5.
- 18. (currently amended): A stainless steel heat exchange having an inner surface according to claim [[9]] 6.
- 19. (currently amended): A stainless steel heat exchange having an inner surface according to claim [[10]] 7.
- 20. (currently amended): A heat exchange having a cooling surface comprising stainless steel according to claim [[8]] 5.
- 21. (currently amended): A heat exchange having a cooling surface comprising stainless steel according to claim [[-9]] 6.
- 22. (currently amended): A heat exchange having a cooling surface comprising stainless steel according to claim [[10]] 7.

- 23. (withdrawn): A process for the thermal cracking of a hydrocarbon comprising passing said hydrocarbon at elevated temperatures through stainless steel tubes, pipes, or coils according to claim 11.
- 24. (withdrawn): A process for the thermal cracking of a hydrocarbon comprising passing said hydrocarbon at elevated temperatures through stainless steel tubes, pipes, or coils according to claim 12.
- 25. (withdrawn): A process for the thermal cracking of a hydrocarbon comprising passing said hydrocarbon at elevated temperatures through stainless steel tubes, pipes, or coils according to claim 13.
- 26. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid through a heat exchanger according to claim 17.
- 27. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid through a heat exchanger according to claim 18.
- 28. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid through a heat exchanger according to claim 19.
- 29. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid through a heat exchanger according to claim 20.

- 30. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid over a heat exchanger according to claim 21.
- 31. (withdrawn): A process for altering the enthalpy of a fluid comprising passing the fluid over a heat exchanger according to claim 22.